WASHINGTON STATE DEPARTMENT OF
Natural Resources

PETER GOLDMARK
Washington State Commissioner of Public Lands

MEMORANDUM

January 15, 2016

TO: Forest Practices Board

FROM: Hans Berge, Adaptive Management Program Administrator

SUBJECT: CMER Membership for Dr. Jenny Knoth

Green Crow has supported the nomination of one of their scientists, Dr. Jenny Knoth, to participate at CMER as a full voting member. Dr. Knoth has been a contributing participant in many CMER activities over the past year including the Wetland Scientific Advisory Group and has taken an active role in the development of an updated Protocol and Standards Manual for CMER. As her curriculum vitae (attached) demonstrates, Dr. Knoth's specific expertise is in Forestry, with an emphasis on nutrients and microbial processes.

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Cooperative Monitoring, Evaluation, and Research Committee (CMER)
Membership Roster
February 2016

Name	**Representing**	**Approved**
Mark Mobbs	Tribal	2/13/2001
Todd Baldwin	Tribal	11/9/2010
Debbie Kay	Tribal	8/14/2012
Vacant	Tribal	
Mark Hicks	State/DOE	6/6/2007
Vacant	State/DNR	
Marc Hayes	State/DFW	8/11/2015
Doug Martin	Landowner	2/13/2001
Jenny Knoth	Landowner	2/10/2016*****
Julie Dieu	Landowner	2/22/2008
A.J. Kroll	Landowner	5/11/2010
Chris Mendoza	Conservation Caucus	11/10/2004
Vacant	USFWS	
Harry Bell	WFFA	8/12/2014
Bill Ehinger	State/DOE Alternate	2/8/2006
Vacant	State/DFW Alternate	
Vacant	Tribal Alternate	
Vacant	Tribal Alternate	

****Pending approval from the Forest Practices Board on 10 February 2016***

Jenny Knoth, Ph.D.
rjknoth@gmail.com

Education:
Ph.D., Forest Resources, University of Washington, Seattle, WA, 2012
M.S., Forest Genetics and Bioinformatics, North Carolina State University, Raleigh, NC, 2002
B.S., Microbiology, University of Washington, Seattle, WA, 1994
National Science Foundation Innovation Corps Program, Stanford University, 2011
Forest Resources University, International Paper Co., Savannah, GA, 2003
Honor Societies: *Xi Sigma Pi (Forester for UW Chapter) and Gamma Sigma Delta*
Member Society of American Foresters

Summary of qualifications

- Over 15 years of field and laboratory experience; over 10 years specific to forestry.
- Interdisciplinary and Multicultural Collaborator: Strong understanding of Pacific Northwest Public, Private, and Tribal Nations' governance, related to natural resources and ecological programs.
- Plant biotechnology: Molecular biology, knowledge of gene expression techniques and plant transformation.
- Skilled Communicator: Proven communication of complex scientific ideas through public speaking and published writing.
- Sustainable Forestry Research: high intensity pulpwood and biomass production, tree-breeding and forest genetics for wood quality and disease resistance; experimental design and data collection.
- Statistical and Quantitative Analysis: SAS, R, and Excel – multivariate, probability, and regression analysis; basic linear modeling, population and quantitative genetic analysis, computer operating platforms – PC, Mac, Unix / linux.
- Spatial analysis: ArcGIS.
- Educator: University instructor, mentor and program leader for public outreach.
- Business Acumen: Co-founder forest products company; business and leadership training program within International Paper and through the National Science Foundation.

Research and Professional Experience

Green Crow, Port Angeles, WA *Director of Environmental Affairs*	8/2015 - present
Carbon Cultures Inc, Seattle, WA *Co-Founder and Board Member*	6/2011 - present
Saint Martin's University, Lacey, WA *Adjunct Professor*	Fall 2013
Brittland Company, Inc., Elma, WA *Forester*	2013
NSF IGERT Fellow, Seattle, WA	2009 –2012
National Science Foundation Integrative Graduate Education and Research Traineeship	
University of Washington, Seattle, WA Biology *Laboratory Coordinator*	Winter 2008
Armstrong Atlantic State University, Savannah, GA *Instructor of Biology*	2006 - 2008
Effingham Girls in Science, *Founder and Co-Director*	2004 -2008
International Paper, Savannah, GA *Research Forester*	2001 – 2006
North Carolina State University, Raleigh, NC *Graduate Research Assistant*	1999 – 2002
Microbiologist – Seattle, WA; Dothan, AL; Raleigh, NC	1994 – 1999

Patent:

Blanket for pyrolysis or drying of biomass. Faires, K. B., Schwartz, D.T., **Knoth, J.L.**, *et al*. U.S. Provisional Application No. 61/485,521, International Application No.: PCT/US2012/037829, WIPO publication number WO/2012/155145.

Select Publications and Presentations

Knoth, J. L., Kim, S.-H., Ettl, G. J. and Doty, S. L. (2014), Biological nitrogen fixation and biomass accumulation within poplar clones as a result of inoculations with diazotrophic endophyte consortia. New Phytologist, 201: 599–609. doi: 10.1111/nph.12536

Jenny L. Knoth, Soo-Hyung Kim, Gregory J. Ettl, Sharon L. Doty, (2013) Effects of cross host species inoculation of nitrogen-fixing endophytes on growth and leaf physiology of maize, 2013, *GCB Bioenergy* **5**(4): 408-418

Jenny Knoth, John Frampton, and Ray Moody, Genetic improvement of Virginia Pine planting stock for Christmas tree production in South Carolina, 2002, *HortTechnology* 12(4) p. 675-678

Jenny Knoth, Gregory Ettl, Soo-Hyung Kim, Sharon Doty, Growth Enhancing Endophytes for Improving Ecosystem Services, 2011 Proceedings 8th Annual Conference Phytotechnology Society, Portland, OR
***Awarded 1st Place Graduate Student Presentation Competition Oral Presentation

Jenny Knoth, Henry Amerson, RossWhetten, David O'Malley, and Ron Sederoff, Identification of Candidate Fusiform Rust Resistance Genes in Loblolly Pine, 2000, Proceedings Society of American Foresters National convention, Washington DC, Poster

Grants and Awards:

$62,306 Student Technology Fund Grant for epifluorescent microscope, 2010
$50,000 Commercialization Gap Fund, University of Washington Center for Commercialization, 2012
$50,000 NSF Innovation CORPS, 2011
$30,000 Annual stipend with tuition and fees for two years – NSF IGERT 2009 -2011
$15,000 Jones Milestone Achievement Award, 2011
$10,000 Student support granted from Plumb Creek Timber Co and Rayonier, 2001
$2,000 Award for the Effingham Girls in Science from International Paper Co.

- Starbucks Honorable Mention 2010 Environmental Innovation Challenge
  UW School of Business; $2500 award
- 1st Place Graduate Student Oral Presentation Competition. 8th Annual Conference Phytotechnology Society, Portland, OR, 2011. $200.00 and gifts.
- Student Travel Award, 12th World Congress of the International Association for Plant Biotechnology, St. Louis, MO. 2010
- Forest Resources Leadership, International Paper Co. 2004

GREEN CROW
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Dear Members of the Forest Practices Board,

This is a letter of support for Jenny Knoth, Ph.D. to take on the responsibilities associated with being a board approved, voting member of the cooperative monitoring evaluation and research committee (CMER). She has been an active attendee of CMER meetings and the WetSAG therefore, I understand that serving CMER in this capacity will require a substantial commitment of participation in regular meetings as well as time dedicated to advance the science needed to support adaptive management. Jenny will bring her dedication to strong scientific research as well as her collaborative spirit.

Sincerely,

Randy Johnson

Randy Johnson
President